

FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

ATTY. DOCKET NO.  
TPP 31359

SERIAL NO.  
09/741,889

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT  
Wataru HIRAHATA et al.

FILING DATE  
December 22, 2000

GROUP  
1754

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RM	5 7 6 3 5 4 7	6/9/98	KOLTHAMMER et al.			

RECEIVED  
OCT 03 2001  
TC 1700

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
0 0 2 0 4 6 6	4/13/00	WIPO			
0 0 6 2 9 2 8	10/26/00	WIPO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

DATE CONSIDERED

9-17-04

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered.  
Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

ATTY. DOCKET NO.  
TPP 31359

SERIAL NO.  
09/741,889

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT  
Wataru HIRAHATA et al

FILING DATE  
December 22, 2000

GROUP  
1754

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>mt</i>	4 4 1 5 7 1 2	11/83	Shipley et al			
<i>f</i>	5 3 3 0 9 4 7	07/94	Shamshoum et al			
<i>f</i>	4 0 4 9 8 9 6	09/77	Rekers et al			
<i>mt</i>	4 6 9 9 9 6 2	10/87	Hsieh et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>mt</i>	0 5 9 1 7 5 6 A	09/93	EP				
<i>f</i>	9 6 2 3 0 0 5	08/96	WO				
<i>f</i>	0 5 7 2 0 3 4 A	05/93	EP				
<i>f</i>	0 5 1 3 3 8 0 A	11/91	EP				
<i>f</i>	9 0 5 0 9 7	09/62	GB				
<i>f</i>	8 5 1 1 1 9	10/60	GB				
<i>mt</i>	2 0 4 8 2 8 4 A	04/80	UK				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

*Albert H. Hall*

DATE CONSIDERED

9-17-04

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered.  
Include copy of this form with next communication to applicant.

RECEIVED  
JUN 25 2001  
10-1700  
Form PTO-1449 [6-4]

FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

ATTY. DOCKET NO.  
TPP 31359

SERIAL NO.  
09/741,889

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
Wataru HIRAHATA et al

FILING DATE  
December 22, 2000

GROUP  
1754

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
RM	4 0 8 5 0 7 0	04/78	Columberg			06/18/76
RM	5 7 7 7 1 2 0	07/98	Jordan et al			03/14/97
RM	5 9 7 3 0 8 8	10/99	Jordan et al			04/03/98

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
9 8 4 0 4 2 1	09/98	WO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

RM	Macromol. Chem. 193, 1283-1288 (1992): "High-molecular-weight polyethylene: growth reactions at bis(dichloroaluminum)ethane and trialkylaluminum"
	Polymer Preprints, Japan Vol. 47, No. 8 (1998) with English language translation
	Polymer Preprints, Japan Vol. 46, No. 7 (1997) with English language translation
	J.Am.Chem.Soc. 1997, 119, 8125-8126, "Cationic Aluminium Alkyl Complexes Incorporating Amidate Ligands. Transition-Metal-Free Ethylene Polymerization Catalyst, Martyn P. Coles and Richard F. Jordan
	J.Am.Chem.Soc. 1998, 120, 8277-8278, "Cationic Aluminum Alkyl Complexes Incorporating Aminotroponimate Ligands"; Eiji Ihara et al
	J.Am.Chem.Soc. 2000, 122, 5668-5669, "Novel Aluminum-Based, Transition Metal-Free, Catalytic Systems for Homo- and Copolymerization of Alkenes" Jang Sub Kim et al
	Chem. Commun., 1998, 2523-2524; "Cationic alkyl aluminium ethylene polymerization catalysts based on monoanionic N,N-pyridyliminoamide ligands" Michael Bruce, et al
RM	ACS Polymer Preprints, 39(2), 1998, 510, "The Polymerization of Ethylene and Higher Olefins Using Transition Metal-Free Aluminum Based Catalyst Systems"; Louis M. Wojcinski II et al

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.